Joseph Botros

(817) 201-9455 | josephbotros@tamu.edu | linkedin.com/in/j-botros

Education

Texas A&M University May 2027 | 3.6/4.0 GPA
Industrial Engineering, Bachelor's of Science *College Station, TX*

- Aggie Data Science Club
- Aggie Coding Club
- Texas A&M Game Developers Club
- TAMU Chess Club

Experience

Data Analysis Researcher Oct. 2024 – Present
LIVE Lab, Texas A&M University *College Station, TX*

- Conducted in-depth observations and reported on the evolution of educational video games (EVGs), assessing trends in both quantity and quality over time
- Analyzed data from 1,545 EVGs developed by 75 publishers, identifying recurring themes, design patterns, and industry trends influencing educational effectiveness
- Documented key findings, insights, and conclusions in a formal research report for submission to the *APA Journal of Educational Psychology*, contributing to the academic discourse on game-based learning

Pharmacy Technician Trainee Externship Sep. 2022 – Mar. 2023
Walgreens *Keller, TX*

- Operated pharmacy management system to process prescriptions and manage patient data
- Filled, organized, and dispensed patient prescriptions
- Managed and processed pharmaceutical shipments into store inventory

Projects

Prophetic Vision Stock Picker | *C++* Sep. 2024 – Dec. 2024

- Developed tools for financial analysis, utilizing company financial statements (10-K, 10-Q) to build a database to search functionality and the calculation of key statistics such as EBITDA
- Implemented stock valuation tools by programming popular valuation methods, using references from industry-standard books and websites to support security analysis
- Conducted statistical analysis on stock data, including linear modeling for return prediction
- Designed user interface options using a command-line interface

Student Database | *C, VS Code* Mar. 2024 – April 2024

- Prompted users to search a file for a student's name, a major, a University Identification Number (UIN), or an academic year
- Processed data structure into lists of the student name, major, UIN, and academic year
- Implemented a merge sorting algorithm to alphabetically organize students by last name
- Optimized data output for user-friendly readability

Technical Skills

Languages: Python, C/C++
Developer Tools: Git, VS Code, PyCharm
Libraries: pandas, NumPy, Matplotlib, Seaborn, scikit-learn, PyTorch